



1632 \$

PATENT
ATTORNEY DOCKET NO. 50195/003002

Certificate of Mailing: Date of Deposit: August 13, 2004

I hereby certify under 37 C.F.R. § 1.8(a) that this correspondence is being deposited with the United States Postal Service as **first class mail** with sufficient postage on the date indicated above and is addressed to Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Alma Woodberry
Printed name of person mailing correspondence


Signature of person mailing correspondence

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Philippe Collas et al. Art Unit: 1632
Serial No.: 10/032,191 Examiner: Voitach, Joseph T.
Filed: December 21, 2001 Customer No.: 21559
Title: METHODS FOR CLONING MAMMALS USING
REPROGRAMMED DONOR CHROMATIN OR DONOR CELLS

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Applicants submit the references listed on the enclosed Form PTO-1449, copies of which are enclosed. A copy of a search report from a corresponding international application is also enclosed.

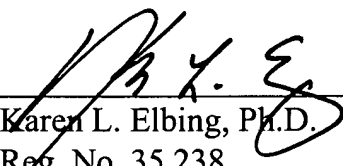
Submission of this statement is not a representation that a search has been made, nor is the inclusion of information in this statement an admission that the information is material to patentability.

This statement is being filed after a first Office action on the merits, but before the mailing of a final Office action or a Notice of Allowance. A check for \$180.00 in payment of the late submission fee set forth in 37 C.F.R. § 1.17(p) is enclosed.

If there are any charges or any credits, please apply them to Deposit Account No. 03-2095.

Respectfully submitted,

Date: 13 August 2004



Karen L. Elbing, Ph.D.
Reg. No. 35,238

Clark & Elbing LLP
101 Federal Street
Boston, MA 02110
Telephone: 617-428-0200
Facsimile: 617-428-7045

Sheet 1 of 14SUBSTITUTE FORM PTO-1449
(MODIFIED)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEINFORMATION DISCLOSURE
STATEMENT BY APPLICANT
(Use several sheets if necessary)

(37 C.F.R. § 1.98(b))

Attorney Docket No.

50195/003002

Serial No.

10/032,191

Applicant

Philippe Collas et al.

Filing Date

December 21, 2001

Group

1632

IDS Filed

August 13, 2004

Customer No.

21559

U.S. PATENTS

Examiner's Initials	Patent No. or Patent Publication No.	Issue Date or Publication Date	Patentee or Applicant	Class	Subclass	Filing Date (If Appropriate)
	4,873,316	10/10/89	Meade et al.	530	412	06/23/87
	4,959,317	09/25/90	Sauer	435	172.3	04/29/87
	4,994,384	02/19/91	Prather et al.	435	172.2	10/27/87
	5,057,420	10/15/91	Massey	435	172.2	10/16/90
	5,160,312	11/03/92	Voelkel	600	34	02/06/91
	5,175,384	12/29/92	Krimpenfort et al	800	2	12/05/88
	5,213,979	05/25/93	First et al.	435	240.2	12/30/87
	5,240,840	08/31/1993	Feinberg et al.	435	172.3	04/05/91
	5,434,066	07/18/95	Bebee et al.	435	172.3	03/15/94
	5,434,340	07/18/95	Krimpenfort et al.	800	2	07/27/92
	5,453,366	09/26/95	Sims et al.	435	172.3	03/15/93
	5,464,764	11/07/95	Capecchi et al.	435	172.3	02/04/93
	5,470,560	11/28/95	Martin, Jr.	424	9.2	02/04/94
	5,480,772	01/02/96	Wangh	435	2	02/03/93
	5,482,856	01/09/96	Fell, Jr. et al.	435	320.1	04/12/93
	5,487,992	01/30/96	Capecchi et al.	435	172.3	06/28/93

EXAMINER

DATE CONSIDERED

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with the next communication to applicant.



SUBSTITUTE FORM PTO-1449
(MODIFIED)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT
(Use several sheets if necessary)

(37 C.F.R. § 1.98(b))

Attorney Docket No.	50195/003002
Serial No.	10/032,191
Applicant	Philippe Collas et al.
Filing Date	December 21, 2001
Group	1632
IDS Filed	August 13, 2004
Customer No.	21559

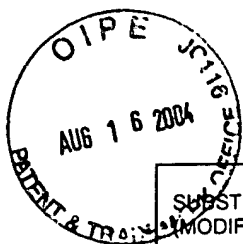
U.S. PATENTS

Examiner's Initials	Patent No. or Patent Publication No.	Issue Date or Publication Date	Patentee or Applicant	Class	Subclass	Filing Date (If Appropriate)
	5,496,720	03/05/96	Susko-Parrish et al.	435	240.2	02/10/93
	5,527,674	06/18/96	Guerra et al.	435	6	05/02/94
	5,545,806	08/13/96	Lonberg et al.	800	2	12/16/92
	5,545,807	08/13/96	Surani et al.	800	2	08/05/94
	5,565,350	10/15/96	Kmiec	435	172.3	12/09/94
	5,565,362	10/15/96	Rosen	435	320.1	01/24/94
	5,569,825	10/29/96	Lonberg et al.	800	2	12/17/91
	5,583,016	12/10/96	Villeponteau et al.	435	91.3	10/27/94
	5,591,669	01/07/97	Krimpenfort et al.	800	2	05/30/95
	5,612,205	03/18/97	Kay et al.	435	172.3	08/28/91
	5,614,396	03/25/97	Bradley et al.	435	172.3	02/22/94
	5,625,126	04/29/97	Lonberg et al.	800	2	12/07/94
	5,627,059	05/06/97	Capecchi et al.	435	172.3	06/05/95
	5,631,153	05/20/97	Capecchi et al.	435	172.3	06/05/95
	5,633,076	05/27/97	DeBoer et al.	435	172.3	11/16/93
	5,633,425	05/27/97	Lonberg et al.	800	2	02/05/92
	5,639,457	06/17/97	Brem et al.	424	184.1	11/15/94
	5,651,992	07/29/97	Wangh	424	520	02/01/94
	5,654,182	08/05/97	Wahl et al.	435	172.1	06/07/95
	5,654,183	08/05/97	Anderson et al.	435	172.3	01/28/94
	5,661,016	08/26/97	Lonberg et al.	435	172.3	04/26/93

EXAMINER

DATE CONSIDERED

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with the next communication to applicant.

SUBSTITUTE FORM PTO-1449
(MODIFIED)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

Attorney Docket No.

50195/003002

Serial No.

10/032,191

Applicant

Philippe Collas et al.

Filing Date

December 21, 2001

Group

1632

IDS Filed

August 13, 2004

Customer No.

21559

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT
(Use several sheets if necessary)

(37 C.F.R. § 1.98(b))

U.S. PATENTS

Examiner's Initials	Patent No. or Patent Publication No.	Issue Date or Publication Date	Patentee or Applicant	Class	Subclass	Filing Date (If Appropriate)
	5,677,177	10/14/97	Wahl et al.	435	325	06/07/95
	5,679,523	10/21/97	Li et al.	435	6	01/16/96
	5,695,977	12/09/97	Jurka	435	172.3	05/07/96
	5,698,763	12/16/97	Weissmann et al.	800	2	06/21/94
	5,721,367	02/24/98	Kay et al.	800	2	06/05/95
	5,733,730	03/31/98	De Lange	435	6	08/25/95
	5,741,957	04/21/98	Deboer et al.	800	2	06/05/95
	5,750,172	05/12/98	Meade et al.	426	580	06/05/95
	5,756,325	05/26/98	Kmiec	435	172.3	09/09/96
	5,763,240	06/09/98	Zarling et al.	435	172.3	07/14/94
	5,770,422	06/23/98	Collins	435	194	07/08/96
	5,770,429	06/23/98	Lonberg et al.	435	240.2	10/10/95
	5,773,217	06/30/98	Wangh	435	6	05/31/95
	5,776,744	07/07/98	Glazer et al.	435	172.3	06/07/95
	5,780,296	07/14/98	Holloman et al.	435	320.1	01/17/95
	5,786,217	07/28/98	Tubo et al.	435	402	04/14/97
	5,789,215	08/04/98	Berns et al.	435	172.3	08/07/97
	5,789,650	08/04/98	Lonberg et al.	800	2	03/18/92

EXAMINER

DATE CONSIDERED

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with the next communication to applicant.

SUBSTITUTE FORM PTO-1449
(MODIFIED)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEINFORMATION DISCLOSURE
STATEMENT BY APPLICANT
(Use several sheets if necessary)

(37 C.F.R. § 1.98(b))

Attorney Docket No.

50195/003002

Serial No.

10/032,191

Applicant

Philippe Collas et al.

Filing Date

December 21, 2001

Group

1632

IDS Filed

August 13, 2004

Customer No.

21559

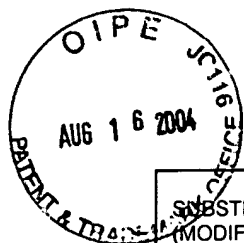
U.S. PATENTS

Examiner's Initials	Patent No. or Patent Publication No.	Issue Date or Publication Date	Patentee or Applicant	Class	Subclass	Filing Date (If Appropriate)
	5,801,030	09/01/98	McVey et al.	435	172.3	09/01/95
	5,814,318	09/29/98	Lonberg et al.	424	184.1	07/22/93
	5,821,117	10/13/98	Sandrin et al.	435	320.1	03/15/94
	5,827,690	10/27/98	Meade et al.	435	69.6	12/20/93
	5,830,698	11/03/98	Reff et al.	435	69.1	03/14/97
	5,837,857	11/17/98	Villeponteau et al.	536	24.31	06/05/96
	5,843,643	12/01/98	Ratner	435	6	02/22/94
	5,843,754	12/01/98	Susko-Parrish et al.	435	240	06/06/95
	5,849,992	12/15/98	Meade et al.	800	2	03/27/95
	5,874,299	02/23/99	Lonberg et al.	435	320.1	02/14/97
	5,876,979	03/02/99	Andrews et al.	435	91.3	06/07/95
	5,877,397	03/02/99	Lonberg et al.	800	2	09/19/94
	5,905,042	05/18/1999	Stice et al.	435	373	04/01/96
	5,945,577	08/31/99	Stice et al.	800	24	01/10/97
	5,952,222	09/14/1999	Rosenkrans, Jr. et al.	435	325	08/02/96
	6,001,654	12/14/99	Anderson et al.	435	377	04/25/97
	6,011,197	01/04/00	Strelchenko et al.	800	24	01/28/99
	6,023,010	02/08/00	Krimpenfort et al.	800	2	12/05/96
	6,077,710	06/20/00	Susko-Parrish et al.	435	375	10/21/98
	6,107,543	08/22/00	Sims et al.	800	21	12/02/94

EXAMINER

DATE CONSIDERED

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with the next communication to applicant.

SUBSTITUTE FORM PTO-1449
(MODIFIED)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEINFORMATION DISCLOSURE
STATEMENT BY APPLICANT
(Use several sheets if necessary)

(37 C.F.R. § 1.98(b))

Attorney Docket No.

50195/003002

Serial No.

10/032,191

Applicant

Philippe Collas et al.

Filing Date

December 21, 2001

Group

1632

IDS Filed

August 13, 2004

Customer No.

21559

U.S. PATENTS

Examiner's Initials	Patent No. or Patent Publication No.	Issue Date or Publication Date	Patentee or Applicant	Class	Subclass	Filing Date (If Appropriate)
	6,153,428	11/28/00	Gustafsson et al.	435	325	03/26/96
	6,194,202	02/27/01	Susko-Parrish et al.	435	325	03/04/96
	6,204,061	03/20/01	Capecchi et al.	435	463	01/09/97
	6,245,567	06/12/01	Wangh	435	408	03/30/98
	6,211,429	04/03/01	Machaty et al.	800	24	06/18/98
	6,258,998	07/10/01	Damiani et al.	800	24	11/24/98
	6,271,436	08/07/01	Piedrahita et al.	800	21	10/10/97
	6,300,129	10/09/01	Lonberg et al.	435	326	12/02/96
	2002/0001842	01/03/02	Chapman	435	449	12/15/00
	2002/0012660	01/31/02	Colman et al.	424	93.21	12/30/99
	2002/0142397	10/03/02	Collas et al.	435	69.5	12/10/01
	2003/0037347	02/20/03	Robl et al.	800	6	11/16/01
	2003/0046722	03/06/03	Collas et al.	800	21	12/21/01
	2004/0068760	04/08/04	Robl et al.	800	6	05/19/03
	2004/0072288	04/15/04	Collas et al.	435	69.1	04/30/03

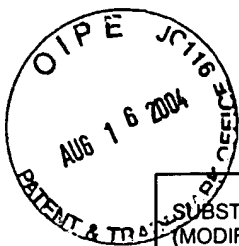
FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

Examiner's Initials	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation (Yes/No)
	EP 0546073	09/10/97	EPO			No
	EP 1106061	06/13/01	EPO			No
	WO 90/06359	06/14/90	WIPO			No
	WO 91/08216	06/13/91	WIPO			No

EXAMINER

DATE CONSIDERED

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with the next communication to applicant.



SUBSTITUTE FORM PTO-1449 (MODIFIED) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) (37 C.F.R. § 1.98(b))	Attorney Docket No.	50195/003002
	Serial No.	10/032,191
	Applicant	Philippe Collas et al.
	Filing Date	December 21, 2001
	Group	1632
	IDS Filed	August 13, 2004
	Customer No.	21559

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

Examiner's Initials	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation (Yes/No)
	WO 92/03917	03/19/92	WIPO			No
	WO 93/04169	03/04/93	WIPO			No
	WO 93/12227	06/24/93	WIPO			No
	WO 93/25567	12/23/93	WIPO			No
	WO 94/21799	09/29/94	WIPO			No
	WO 94/25585	11/10/94	WIPO			No
	WO 95/20661	08/03/95	WIPO			No
	WO 95/28412	10/26/95	WIPO			No
	WO 95/33828	12/14/95	WIPO			No
	WO 97/07668	03/06/97	WIPO			No
	WO 97/07669	03/06/97	WIPO			No
	WO 97/12035	04/03/97	WIPO			No
	WO 98/14593	04/09/98	WIPO			No
	WO 98/30683	07/16/98	WIPO			No
	WO 98/33387	08/06/98	WIPO			No
	WO 98/37183	08/27/98	WIPO			No
	WO 98/39416	09/11/98	WIPO			No
	WO 99/21415	05/06/99	WIPO			No
	WO 99/45962	09/16/99	WIPO			No
	WO 99/60108	11/25/99	WIPO			No
	WO 00/42174	07/20/00	WIPO			No
	WO 00/67568	11/16/00	WIPO			No

EXAMINER

DATE CONSIDERED

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with the next communication to applicant.



SUBSTITUTE FORM PTO-1449 (MODIFIED) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) (37 C.F.R. § 1.98(b))	Attorney Docket No.	50195/003002
	Serial No.	10/032,191
	Applicant	Philippe Collas et al.
	Filing Date	December 21, 2001
	Group	1632
	IDS Filed	August 13, 2004
	Customer No.	21559

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

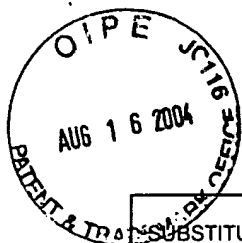
Examiner's Initials	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation (Yes/No)
	WO 00/67569	11/16/00	WIPO			No
	WO 00/74477	12/14/00	WIPO			No
	WO 01/23541	04/05/01	WIPO			No
	WO 01/30992	05/03/01	WIPO			No
	WO 01/35735	05/25/01	WIPO			No
	WO 01/00809	01/04/01	WIPO			No
	WO 02/14469	02/21/02	WIPO			No
	WO 02/067665	09/06/02	WIPO			No
	WO 03/064618	08/07/03	WIPO			No

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)

	Amano et al., "Full-Term Development of Enucleated Mouse Oocytes Fused with Embryonic Stem Cells from Different Cell Lines," <i>Reproduction</i> 121:729-733 (2001).
	Annas et al., "Stem Cell Politics, Ethics and Medical Progress," <i>Nat. Med.</i> 5:1339-1341 (1999).
	Bell et al., "The Analysis of Costimulatory Receptor Signaling Cascades in Normal T Lymphocytes Using <i>In Vitro</i> Gene Transfer and Reporter Gene Analysis," <i>Nat. Med.</i> 7:1155-1158 (2001).
	Blau et al., "Plasticity of Cell Fate: Insights from Heterokaryons," <i>Seminars in Cell & Dev. Biol.</i> 10:267-272 (1999).
	Burke et al., "A Cell Free System to Study Reassembly of the Nuclear Envelope at the End of Mitosis," <i>Cell</i> 44:639-652 (1986).
	Campbell et al., "Totipotency or Multipotentiality of Cultured Cells: Applications and Progress," <i>Theriogenology</i> 47:63-72 (1997).
	Cheong et al., "Relationship Between Nuclear Remodeling and Subsequent Development of Mouse Embryonic Nuclei Transferred to Enucleated Oocytes," <i>Molecular Reproduction and Development</i> 37:138-145 (1994).
	Church, "Are Problems Posed by Genetically Engineered Animals?," <i>Applied Animal Behavior Science</i> 20:73-82 (1988).
	Cibelli et al., "Bovine Chimeric Offspring Produced by Transgenic Embryonic Stem Cells Generated from Somatic Cell Nuclear Transfer Embryos," <i>Theriogenology</i> p. 236

EXAMINER**DATE CONSIDERED**

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with the next communication to applicant.



SUBSTITUTE FORM PTO-1449 (MODIFIED) INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) (37 C.F.R. § 1.98(b))	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	Attorney Docket No.	50195/003002
		Serial No.	10/032,191
		Applicant	Philippe Collas et al.
		Filing Date	December 21, 2001
		Group	1632
		IDS Filed	August 13, 2004
		Customer No.	21559

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)

	Cibelli et al., "Transgenic Bovine Chimeric Offspring Produced from Somatic Cell-Derived Stem-Like Cells," <i>Nat. Biotechnol.</i> 16:642-646 (1998).
	Collas et al., "Lipophilic Organizing Structures of Sperm Nuclei Target Membrane Vesicle Binding and Are Incorporated into the Nuclear Envelope," <i>Dev. Biol.</i> 169:123-135 (1995).
	Collas, "Sequential PKC- and Cdc2-Mediated Phosphorylation Events Elicit Zebrafish Nuclear Envelope Disassembly," <i>J. Cell Sci.</i> 112:977-987 (1999).
	Collas et al., "Sorting Nuclear Membrane Proteins at Mitosis," <i>Trends in Cell Biol.</i> 10:5-8 (2000).
	Collas et al., "The A-Kinase Anchoring Protein, AKAP95, Is A Multivalent Protein with a Key Role in Chromatin Condensation at Mitosis," <i>J. Cell Biol.</i> 147:1167-1179 (1999).
	Collas et al., "Relationship Between Nuclear Remodeling and Development in Nuclear Transplant Rabbit Embryos," <i>Biol. Reprod.</i> 45:455-465 (1991).
	Condorelli et al., "Cardiomyocytes Induce Endothelial Cells to Transdifferentiate into Cardiac Muscle: Implications for Myocardium Regeneration," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 98:10733-10738 (2001).
	Costa et al., "Comparative Analysis of Three Genetic Modifications Designed to Inhibit Human Serum-mediated Cytolysis," <i>Xenotransplantation</i> 6:6-16 (1999).
	Cubizolles et al., "pEg7, A New <i>Xenopus</i> Protein Required for Mitotic Chromosome Condensation in Egg Extracts," <i>J. Cell Biol.</i> 143:1437-1446 (1998).
	de Anta et al., "k-FGF Protoncogene Expression Is Associated with Murine Testicular Teratogenesis, But Is Not Involved During Mouse Testicular Development," <i>Histol. Histopathol.</i> , 11:33-41 (1996).
	DiBerardino et al., "Feeding Tadpoles Cloned from <i>Rana</i> Erythrocyte Nuclei," <i>Proc. Natl. Acad. Sci. U.S.A.</i> , 83:8231-8234 (1986).
	Eggan et al., "Hybrid Vigor, Fetal Overgrowth, and Viability of Mice Derived by Nuclear Cloning and Tetraploid Embryo Complementation," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 98:6209-6214 (2001).
	Evans et al., "Mitochondrial DNA Genotypes in Nuclear Transfer-Derived Cloned Sheep," <i>Nat. Genet.</i> 23:90-93 (1999).
	Finlay et al., "Inhibition of In Vitro Nuclear Transport by a Lectin that Binds to Nuclear Pores," <i>J. Cell Biol.</i> 104:189-200 (1987).
	Finlay et al., "Reconstitution of Biochemically Altered Nuclear Pores: Transport can be Eliminated and Restored," <i>Cell</i> 60:17-29 (1990).
	Fuchs et al., "Stem Cells: a New Lease on Life," <i>Cell</i> 100:143-155 (2000).
	Funderburgh et al., "Proteoglycan Expression During Transforming Growth Factor β -Induced Keratocyte-Myofibroblast Transdifferentiation," <i>J. Biol. Chem.</i> 276:44173-44178 (2001).

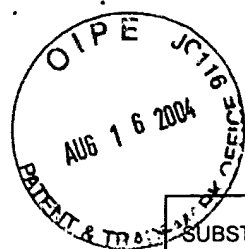
EXAMINER

DATE CONSIDERED

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with the next communication to applicant.



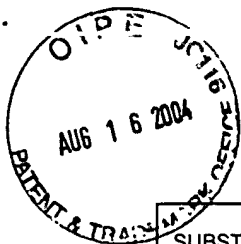
SUBSTITUTE FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (MODIFIED) PATENT AND TRADEMARK OFFICE		Attorney Docket No. 50195/003002 Serial No. 10/032,191 Applicant Philippe Collas et al. Filing Date December 21, 2001 Group 1632 IDS Filed August 13, 2004 Customer No. 21559
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		
(37 C.F.R. § 1.98(b))		
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)		
	Gjertsen et al., "Cytotoxic CD4 ⁺ And CD8 ⁺ T Lymphocytes, Generated By Mutant p21-ras (12Val) Peptide Vaccination of a Patient, Recognize 12Val-Dependent Nested Epitopes Present Within the Vaccine Peptide and Kill Autologous Tumour Cells Carrying this Mutation," <i>Int. J. Cancer</i> 72:784-790 (1997).	
	Görlich et al., "Identification of Different Roles for RanGDP and RanGTP in Nuclear Protein Import," <i>EMBO J.</i> 15:5584-5594 (1996).	
	Görlich et al., "A Novel Class of RanGTP Binding Proteins," <i>J. Cell Biol.</i> 138:65-80 (1997).	
	Greiner et al., "SCID Mouse Models of Human Stem Cell Engraftment," <i>Stem Cells</i> 16:166-177 (1998).	
	Gurdon et al., "Nuclear Reprogramming and Stem Cell Creation," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 100 Suppl. 1:11819-11822 (2003).	
	Gurdon et al., "Reprogramming of Transplanted Nuclei in Amphibia," <i>Int. Rev. Cytol. Suppl.</i> 9:161-178 (1979).	
	Håkeliën et al., "Reprogramming Fibroblasts to Express T-Cell Functions Using Cell Extracts," <i>Nat. Biotechnol.</i> 20:460-466 (2002).	
	Hasler, "Current Status and Potential of Embryo Transfer and Reproductive Technology in Dairy Cattle," <i>J. Dairy Sci.</i> 75:2857-2879 (1992).	
	Hu et al., "Transdifferentiation of Myoblasts by the Adipogenic Transcription Factors PPAR γ and C/EBP α ," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 92:9856-9860 (1995).	
	Ishida et al., "Production of a Diverse Repertoire of Human Antibodies in Genetically Engineered Mice," <i>Microbiol. Immunol.</i> 42(3):143-150, (1998).	
	Iwasaki et al., "Production of Live Calves Derived from Embryonic Stem-like Cells Aggregated with Tetraploid Embryos," <i>Biol. Reprod.</i> 62:470-475 (2000).	
	Iwasaki et al., "In-vitro Development of Aggregates of Bovine Inner Cell Mass Cells or Bovine Mammary Cells and Putative Tetraploid Embryos Produced by Electrofusion," <i>Journal of Reproduction and Development</i> 45:65-71 (1999).	
	Kasinathan et al., "Production of Calves From G1 Fibroblasts," <i>Nature Biotech.</i> 19:1176-1178 (2001).	
	Kasinathan et al., "Effect of Fibroblast Donor Cell Age and Cell Cycle on Development of Bovine Nuclear Transfer Embryos In Vitro," <i>Biol. Reprod.</i> 64:1487-1493 (2001).	
	Kass et al., "How does DNA Methylation Repress Transcription?," <i>Trends Genet.</i> 13:444-449 (1997).	
EXAMINER		DATE CONSIDERED
EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with the next communication to applicant.		



SUBSTITUTE FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (MODIFIED) PATENT AND TRADEMARK OFFICE		Attorney Docket No. 50195/003002
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) (37 C.F.R. § 1.98(b))		Serial No. 10/032,191
		Applicant Philippe Collas et al.
		Filing Date December 21, 2001
		Group 1632
		IDS Filed August 13, 2004
		Customer No. 21559
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)		
	Kato et al., "Germ Cell Nuclei of Male Fetal Mice Can Support Development of Chimeras to Midgestation Following Serial Transplantation," <i>Development</i> 121:779-783 (1995).	
	Kikyo et al., "Reprogramming Nuclei: Insights from Cloning, Nuclear Transfer and Heterokaryons," <i>J. Cell Sci.</i> 113:11-20 (2000).	
	Kikyo et al., "Active Remodeling of Somatic Nuclei in Egg Cytoplasm by the Nucleosomal ATPase ISWI," <i>Science</i> 289:2360-2362, 2000.	
	Kono et al., "Development of Chimaeric Two-Cell Mouse Embryos Produced by Allogenic Exchange of Single Nucleus From Two-and Eight-Cell Embryos," <i>Gamete. Res.</i> 24:375-384 (1989).	
	Kuroiwa et al., "Manipulation of Human Minichromosomes to Carry Greater than Megabase-Sized Chromosome Inserts," <i>Nature Biotechnol.</i> 18:1086-1090, (2000).	
	Kutay et al., "Dominant-Negative Mutants of Importin- β Block Multiple Pathways of Import and Export through the Nuclear Pore Complex," <i>EMBO J.</i> 16:1153-1163 (1997).	
	Landsverk et al., "Reprogrammed Gene Expression In A Somatic Cell-Free Extract," <i>EMBO Rep.</i> 3:384-389 (2002).	
	Li et al., "Activation of Mitogen-Activated Protein Kinases (Erk1 and Erk2) Cascade Results in Phosphorylation of NF-M Tail Domains in Transfected NIH 3T3 Cells," <i>Eur. J. Biochem.</i> 262:211-217 (1999).	
	Lohka et al., "Formation In Vitro of Sperm Pronuclei and Mitotic Chromosomes Induced by Amphibian Ooplasmic Components," <i>Science</i> 220:719-721 (1983).	
	Lohka et al., "Induction of Nuclear Envelope Breakdown, Chromosome Condensation and Spindle Formation in Cell-Free Extracts," <i>J. Cell Biol.</i> 101:518-523 (1985).	
	Macaulay et al., "Assembly of the Nuclear Pore: Biochemically Distinct Steps Revealed with NEM, GTP γ S, and BAPTA," <i>J. Cell Biol.</i> 132:5-20 (1996).	
	Maghazachi et al., "Interferon-Inducible Protein-10 and Lymphotoxin Induce the Chemotaxis and Mobilization of Intracellular Calcium in Natural Killer Cells through Pertussis Toxin-Sensitive and -Insensitive Heterotrimeric G-Proteins," <i>FASEB J.</i> 11:765-774 (1997).	
	Mann, "Inviability of Parthenogenones Is Determined by Pronuclei, Not Egg Cytoplasm," <i>Nature</i> 310:66-67 (1984).	
	Maus et al., "Disassembly of the Drosophila Nuclear Lamina in a Homologous Cell-Free System," <i>J. Cell Sci.</i> 108:2027-2035 (1995).	
	Meinecke-Tillmann, "Über Kerntransplantationen und das Klonen von Säugetieren," <i>Praktische Tierarzt</i> 9:59-67 (1988).	
EXAMINER		DATE CONSIDERED
EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with the next communication to applicant.		



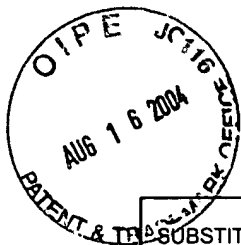
SUBSTITUTE FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (MODIFIED) PATENT AND TRADEMARK OFFICE		Attorney Docket No. 50195/003002 Serial No. 10/032,191 Applicant Philippe Collas et al. Filing Date December 21, 2001 Group 1632 IDS Filed August 13, 2004 Customer No. 21559
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		
(37 C.F.R. § 1.98(b))		
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)		
	Miake-Lye et al., "Induction of Early Mitotic Events in a Cell-Free System," <i>Cell</i> 41:165-175 (1985).	
	Modlinski et al., "Further Perspectives in Mammalian Embryo Cloning: Establishment, Culture and Possible Use of Embryonic Stem Cells," <i>Animal Science Papers and Reports - Polish Academy of Sciences</i> 13:169-184 (1995).	
	Moreira et al., "Architectural Defects in Pronuclei of Mouse Nuclear Transplant Embryos," <i>J. Cell Sci.</i> 116:3713-3720, (2003).	
	Morrison, "Stem Cell Potential: Can Anything Make Anything," <i>Curr. Biol.</i> 11:R7-R9 (2001).	
	Munsie et al., "Isolation of Pluripotent Embryonic Stem Cells from Reprogrammed Adult Mouse Somatic Cell Nuclei," <i>Curr. Biol.</i> 10:989-992 (2000).	
	Munsie et al., "Novel Method for Demonstrating Nuclear Contribution in Mouse Nuclear Transfer," <i>Reprod. Fertil. & Dev.</i> 10:633-637 (1998).	
	Newmeyer et al., "In Vitro Transport of a Fluorescent Nuclear Protein and Exclusion of Non-Nuclear Proteins," <i>J. Cell Biol.</i> 103:2091-2102 (1986).	
	Newmeyer "Nuclear Import Can be Separated into Distinct Steps In Vitro: Nuclear Pore Binding and Translocation," <i>Cell</i> 52:641-653 (1988).	
	Newmeyer et al., "An N-Ethylmaleimide-Sensitive Cytosolic Factor Necessary for Nuclear Protein Import: Requirement in Signal-Mediated Binding to the Nuclear Pore," <i>J. Cell Biol.</i> 110:547-557 (1990).	
	Newport, "Nuclear Reconstitution In Vitro: Stages of Assembly Around Protein-Free DNA," <i>Cell</i> 48:205-217 (1987).	
	Niemann et al., "Manipulating Early Pig Embryos," <i>J. Reprod. & Fertil. Suppl.</i> 48:75-94 (1993).	
	Notarianni, "Prospects for the Attainment of Transgenesis in Livestock," Abstract No. 4173, <i>Genetic Engineering Applications</i> , p. 613.	
	Overström, "Manipulation of Early Embryonic Development," <i>Animal Reproduction Science</i> 28:277-285 (1992).	
	Paschal et al., "Identification of NTF2, a Cytosolic Factor for Nuclear Import that Interacts with Nuclear Pore Complex Protein p62," <i>J. Cell Biol.</i> 129:925-937 (1995).	
	Perry et al., "Mammalian Oocyte Activation by the Synergistic Action of Discrete Sperm Head Components: Induction of Calcium Transients and Involvement of Proteolysis," <i>Dev. Biol.</i> 217:386-393 (2000).	
	Perry et al., "Mammalian Transgenesis by Intracytoplasmic Sperm Injection," <i>Science</i> 284:1180-1183 (1999).	
EXAMINER		DATE CONSIDERED
EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with the next communication to applicant.		



SUBSTITUTE FORM PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		Attorney Docket No.	50195/003002
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) (37 C.F.R. § 1.98(b))				Serial No.	10/032,191
				Applicant	Philippe Collas et al.
				Filing Date	December 21, 2001
				Group	1632
				IDS Filed	August 13, 2004
				Customer No.	21559
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)					
Polejaeva et al., "New Advances in Somatic Cell Nuclear Transfer: Application in Transgenesis," <i>Theriogenology</i> 53:117-126 (2000).					
Polejaeva et al., "Cloned Pigs Produced by Nuclear Transfer From Adult Somatic Cells," <i>Nature</i> 407:86-90 (2000).					
Polge, "Potential Impact of Advanced Biotechnology on Genetic Conservation Programmes," in <i>Genetic Conservation of Domestic Livestock</i> , edited by Alderson, Wallingford, U.K. pp. 227-235 (1990).					
Pollock et al., "Development of Human Lymphocyte-Engrafted SCID Mice as a Model for Immunotoxicity Assessment," <i>Fund. & Appl. Toxicol.</i> 22:130-138, (1994).					
Prelle et al., "Establishment of Pluripotent Cell Lines from Vertebrate Species--Present Status and Future Prospects," <i>Cells Tissues Organs</i> 165:220-236 (1999).					
Ramirez et al., "Life-Supporting Human Complement Regulator Decay Accelerating Factor Transgenic Pig Liver Xenograft Maintains the Metabolic Function and Coagulation in the Nonhuman Primate for Up to 8 Days," <i>Transplantation</i> 70:989-998 (2000).					
Rexroad, "History of Genetic Engineering of Laboratory and Farm Animals," <i>Genetic Engineering of Animals, An Agricultural Perspective</i> , pp. 127-138 (1986).					
Ribbeck et al., "NTF2 Mediates Nuclear Import of Ran," <i>EMBO J.</i> 17:6587-6598 (1998).					
Rideout et al., "Generation of Mice From Wild-Type and Targeted ES Cells by Nuclear Cloning," <i>Nat. Genet.</i> 24:109-110 (2000).					
Rideout et al., "Nuclear Cloning and Epigenetic Reprogramming of the Genome," <i>Science</i> 293:1093-1098 (2001).					
Risau et al., "Vasculogenesis and Angiogenesis in Embryonic-Stem-Cell-Derived Embryoid Bodies," <i>Development</i> 102:471-478 (1988).					
Sandrin et al., "Gala(1,3)Gal, the Major Xenoantigen(s) Recognised in Pigs by Human Natural Antibodies," <i>Immunol. Rev.</i> 141:169-190 (1994).					
Schlenstedt et al., "Reconstitution of Nuclear Protein Transport with Semi-Intact Yeast Cells," <i>J. Cell Biol.</i> 123:785-798 (1993).					
Schnieke et al., "Human Factor IX Transgenic Sheep Produced by Transfer of Nuclei from Transfected Fetal Fibroblasts," <i>Science</i> 278:2130-2133 (1997).					
Seidel, "Reproductive Biotechnology and 'Big' Biological Questions," <i>Theriogenology</i> 53:187-194 (2000).					
Shelton, "Embryo Manipulation in Research and Animal Production," <i>Aust. J. Biol. Sci.</i> 41:117-132 (1988).					
EXAMINER			DATE CONSIDERED		
EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with the next communication to applicant.					



SUBSTITUTE FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (MODIFIED) PATENT AND TRADEMARK OFFICE		Attorney Docket No.	50195/003002
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) (37 C.F.R. § 1.98(b))		Serial No.	10/032,191
		Applicant	Philippe Collas et al.
		Filing Date	December 21, 2001
		Group	1632
		IDS Filed	August 13, 2004
		Customer No.	21559
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)			
	Shen et al., "Molecular Basis of Transdifferentiation of Pancreas to Liver," <i>Nat. Cell Biol.</i> 2:879-887 (2000).		
	Sotomaru et al., "Induction of Pluripotency by Injection of Mouse Trophectoderm Cell Nuclei into Blastocysts Following Transplantation into Enucleated Oocytes," <i>Theriogenology</i> 52:213-220 (1999).		
	Sotomaru et al., "Nuclear Transplantation of Mouse Inner Cell Mass and Trophectoderm Cells into Endonucleated Two-cell Embryos," <i>Journal of Reproduction and Development</i> 44:1-6 (1998).		
	Steen et al., "Recruitment of Protein Phosphatase 1 to the Nuclear Envelope by A-Kinase Anchoring Protein AKAP149 Is a Prerequisite for Nuclear Lamina Assembly," <i>J. Cell Biol.</i> 150:1251-1261 (2000).		
	Steen et al., "A Kinase-Anchoring Protein (AKAP)95 Recruits Human Chromosome-Associated Protein (hCAP)-D2/Eg7 for Chromosome Condensation in Mitotic Extract," <i>J. Cell Biol.</i> 149:531-536 (2000).		
	Stice et al., "Nuclear Reprogramming in Nuclear Transplant Rabbit Embryos," <i>Biol. Reprod.</i> 39:657-664 (1988).		
	Stice et al., "Bovine Pluripotent Embryonic Cells Contribute to Nuclear Transfer and Chimeric Fetuses," <i>Theriogenology</i> 41:301 (1994).		
	Stice et al., "Pluripotent Bovine Embryonic Cell Lines Direct Embryonic Development Following Nuclear Transfer," <i>Biol. Reprod.</i> 54:100-110 (1996).		
	Sullivan et al., "Cloned Calves From Chromatin Remodeled in Vitro," <i>Biology of Reproduction</i> 70:146-153, (2004).		
	Sun et al., "Immunization with Interleukin-2-Secreting Allogeneic Cells Transfected with DNA from Mouse Melanoma Cells Induces Immune Responses that Prolong the Lives of Mice with Melanoma," <i>Cancer Gene Therapy</i> 5:110-118 (1998).		
	Suprynowicz et al., "A Fractionated Cell-Free System for Analysis of Prophase Nuclear Disassembly," <i>J. Cell Biol.</i> 103:2073-2081 (1986).		
	Tada et al., "Embryonic Germ Cells Induce Epigenetic Reprogramming of Somatic Nucleus in Hybrid Cells," <i>EMBO J.</i> 16:6510-6520 (1997).		
	Tamashiro et al., "Postnatal Growth and Behavioral Development of Mice Cloned from Adult Cumulus Cells," <i>Biol. Reprod.</i> 63:328-334 (2000).		
	Tearle et al., "The α -1,3-Galactosyltransferase Knockout Mouse: Implications for Xenotransplantation," <i>Transplantation</i> 61:13-19 (1996).		
	Wade et al., "Chromatin Remodeling in Nuclear Cloning," <i>Eur. J. Biochem.</i> 269:2284-2287 (2002).		
EXAMINER		DATE CONSIDERED	
EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with the next communication to applicant.			



SUBSTITUTE FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (MODIFIED) PATENT AND TRADEMARK OFFICE		Attorney Docket No. 50195/003002 Serial No. 10/032,191 Applicant Philippe Collas et al. Filing Date December 21, 2001 Group 1632 IDS Filed August 13, 2004 Customer No. 21559
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		
(37 C.F.R. § 1.98(b))		
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)		
	Wakayama et al., "Mice Cloned from Embryonic Stem Cells," <i>Proc. Natl. Acad. U.S.A.</i> 96:14984-14989 (1999).	
	Wakayama et al., "Cloning of Male Mice From Adult Tail-Tip Cells," <i>Nat. Genet.</i> 22:127-128 (1999).	
	Wakayama et al., "Nuclear Transfer into Mouse Zygotes," <i>Nat. Genet.</i> 24:108-109 (2000).	
	Wakayama et al., "Differentiation of Embryonic Stem Cell Lines Generated from Adult Somatic Cells by Nuclear Transfer," <i>Science</i> 292:740-743 (2001).	
	Wakayama et al., "The First Polar Body can be Used for the Production of Normal Offspring in Mice," <i>Biol. Reprod.</i> 59:100-104 (1998).	
	Wakayama et al., "Full-Term Development of Mice from Enucleated Oocytes Injected with Cumulus Cell Nuclei," <i>Nature</i> 394:369-74 (1998).	
	Wakayama et al., "Fertilisability and Developmental Ability of Mouse Oocytes with Reduced Amounts of Cytoplasm," <i>Zygote</i> 6:341-346 (1998).	
	Wakayama et al., "Cloning the Laboratory Mouse," <i>Semin. Cell & Dev. Biol.</i> 10:253-258, (1999).	
	Wagh et al., "Efficient Reactivation of <i>Xenopus</i> Erythrocyte Nuclei in <i>Xenopus</i> Egg Extracts," <i>J. Cell Sci.</i> 108:2187-2196 (1995).	
	Westphal et al., "Transposon-generated 'Knock-out' and 'Knock-in' Gene-Targeting Constructs For Use in Mice," <i>Current Biology</i> 7:R530-R533 (1997).	
	Wilson et al., "A Trypsin-Sensitive Receptor on Membrane Vesicles is Required for Nuclear Envelope Formation In Vitro," <i>J. Cell Biol.</i> 107:57-68 (1988).	
	Yang et al., "Micromanipulation of Mammalian Embryos: Principles, Progress and Future Possibilities," <i>Theriogenology</i> 38:315-335 (1992).	
	Zhou et al., "Developmental Potential of Mouse Embryos Reconstructed from Metaphase Embryonic Stem Cell Nuclei," <i>Biol. Reprod.</i> 65:412-419 (2001).	
EXAMINER		DATE CONSIDERED
EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with the next communication to applicant.		